

STATIONARY SOURCE PERMIT TO OPERATE

This permit supersedes your permit dated November 12, 2002.

In compliance with the Federal Clean Air Act and the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution,

Brunswick Senior High School
2171 Lawrenceville Plank Road
Lawrenceville, Virginia 23868
Registration No.: 30608
County Plant I.D.: 025-00015

is authorized to operate

boilers for heating

located at

2171 Lawrenceville Plank Road, Virginia 23868

in accordance with the Conditions of this permit.

Approved on **DRAFT**

Robert J. Weld
Deputy Director, Piedmont Regional Office

Permit consists of 6 pages.
Permit Conditions 1 to 21.

PERMIT CONDITIONS - the regulatory reference or authority for each condition is listed in parentheses () after each condition.

APPLICATION

1. Except as specified in this permit, Brunswick Senior High School is to operate as represented in the permit application dated September 25, 2002 and amended information dated October 4, 2002 and June 12, 2006. Any changes in the permit application specifications or any existing facilities which alter the impact of the facility on air quality may require a permit. Failure to obtain such a permit prior to construction may result in enforcement action.
(9 VAC 5-80-830)

PROCESS REQUIREMENTS

2. **Equipment List** - Equipment to be operated at this facility consists of:

<u>Unit Ref.</u>	<u>Equipment</u>	<u>Max. Rate Capacity</u>
01	Donlee Technologies Inc. (1999) JB3C-50-EP170-M, 30-MP-IRA	6.3 Million BTU/Hr
02	Donlee Technologies Inc. (1999) JB3C-50-EP170-M, 30-MP-IRA	6.3 Million BTU/Hr
03	Distillate Oil Tank (underground)	10,000 gallon

(9 VAC 5-80-1100)

OPERATING/EMISSION LIMITATIONS

3. **Fuel** - The approved fuel for the 2 boilers is natural gas and No. 2 distillate oil. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-1180)

4. **Fuel Throughput** – The 2 dual fuel fired boilers combined shall consume no more than **70,000 gal/yr** of No. 2 distillate oil and no more than **4,538,520,000 cubic feet/yr** of natural gas, each fuel calculated monthly as the sum of each consecutive 12 month period.
(9 VAC 5-80-1180 and 9 VAC 5-50-260)

5. **Fuel Specifications** - The distillate oil shall meet the specifications below:

DISTILLATE OIL which meets ASTM D396-78 specifications for #1 or #2 fuel oil:

Maximum sulfur content per shipment: **0.2%**
(9 VAC 5-80-1180)

6. **Fuel Certification** - The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil. Each fuel supplier certification shall include the following:
 - a. The name of the fuel supplier;
 - b. The date on which the distillate oil was received;
 - c. The volume of distillate oil delivered in the shipment;

d. A statement that the distillate oil complies with the American Society for Testing and Materials specifications D396-78 for #1 or #2 fuel oil, and

e. The sulfur content of the distillate oil.

(9 VAC 5-170-160 and 9 VAC 5-50-410)

7. **Operating and Training Procedures** - Boiler emissions shall be controlled by proper operation and maintenance. Boiler operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at minimum. The permittee shall maintain records of the required training including a statement of time, place and nature of training provided. The permittee shall have available good written operating procedures and a maintenance schedule for the boiler. These procedures shall be based on the manufacturer's recommendations, at minimum. All records required by this condition shall be kept on site and made available for inspection by the DEQ.

(9 VAC 5-170-160)

8. **Emission Limits** - Emissions from the operation of the 2 boilers shall not exceed the limits specified below:

Sulfur Dioxide	2.6 lbs/hr	1.0 tons/yr
Nitrogen Oxides (as NO ₂)	2.1 lbs/hr	3.9 tons/yr
Carbon Monoxide	1.1 lbs/hr	1.9 tons/yr

(9 VAC 5-50-260 and 9 VAC 5-50-180)

9. **Visible Emission Limit** - Visible emissions from the boilers shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.

(9 VAC 5-50-80)

10. **Facility Emission Limits** - Total emissions from the school shall not exceed the limits specified below:

Sulfur Dioxide	2.6 lbs/hr	1.0 tons/yr
Nitrogen Oxides (as NO ₂)	2.1 lbs/hr	3.9 tons/yr
Carbon Monoxide	1.1 lbs/hr	1.9 tons/yr

(9 VAC 5-80-850)

RECORDS AND REPORTING

11. **On Site Records** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Piedmont Regional Office. These records shall include, but are not limited to:

- a. Annual throughput of #2 distillate oil and natural gas, or alternate records as approved in writing by EPA, Region III. Annual throughput for each fuel shall be calculated monthly as the sum of each consecutive 12-month period.
- b. All fuel supplier certifications.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-40-50 & 9 VAC 5-50-50)

12. **Testing/Monitoring Ports** - The permitted facility shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. This includes constructing the facility such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and providing stack or duct that is free from cyclonic flow. Test ports shall be provided when requested at the stack or at the appropriate locations or in accordance with the applicable performance specification (reference 40 CFR Part 60, Appendix B.

(9 VAC 5-80-930)

GENERAL CONDITIONS

13. **Right of Entry** - The permittee shall allow authorized local, state, and federal representatives, upon the presentation of credentials:

- a. To enter upon the permittee's premises on which the facility is located or in which any records are required to be kept under the terms and conditions of this permit;
- b. To have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit or the State Air Pollution Control Board Regulations;
- c. To inspect at reasonable times any facility, equipment, or process subject to the terms and conditions of this permit or the State Air Pollution Control Board Regulations; and
- d. To sample or test at reasonable times.

For purposes of this condition, the time for inspection shall be deemed reasonable during regular business hours or whenever the facility is in operation. Nothing contained herein shall make an inspection time unreasonable during an emergency.

(9 VAC 5-170-130)

14. **Notification for Facility or Control Equipment Malfunction** - The permittee shall furnish notification to the Piedmont Regional Office of malfunctions of the affected facility that may cause excess emissions for more than one hour, by facsimile transmission, telephone or telegraph. Such notification shall be made as soon as practicable but not later than four daytime business hours of the malfunction. The permittee shall provide a written statement giving all pertinent facts,

including the estimated duration of the breakdown, within 14 days of the occurrence. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the permittee shall notify the Piedmont Regional Office in writing.
(9 VAC 5-20-180 C)

15. **Violation of Ambient Air Quality Standard** - The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary to avoid violating any primary ambient air quality standard and shall not return to normal operation until such time as the ambient air quality standard will not be violated.
(9 VAC 5-20-180 I)

16. **Maintenance/Operating Procedures** - The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions with respect to process equipment which affect such emissions:

- a. Develop a maintenance schedule and maintain records of all scheduled and non scheduled maintenance.
- b. Maintain an inventory of spare parts for the boilers.
- c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
- d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.
(9 VAC 5-50-20 E)

17. **Permit Suspension/Revocation** - This permit may be suspended or revoked if the permittee:

- a. Knowingly makes material misstatements in the application for this permit or any amendments to it;
- b. Fails to comply with the terms or conditions of this permit;
- c. Fails to comply with any emission standards applicable to the equipment listed in Condition 2;
- d. Causes emissions from this facility which result in violations of, or interferes with the attainment and maintenance of, any ambient air quality standard;
- e. Fails to operate this facility in conformance with any applicable control strategy, including any emission standards or emission limitations, in the State Implementation Plan in effect on the date that the application for this permit is submitted;
- f. Fails to comply with the applicable provisions of 9 VAC 5 Chapter 80 Article 6, Article 8 and Article 9.

(9 VAC 5-80-1010)

18. **Change of Ownership** - In the case of a transfer of ownership of a stationary source, the new owner shall abide by any current permit issued to the previous owner. The new owner shall notify the Piedmont Regional Office of the change of ownership within 30 days of the transfer.
(9 VAC 5-80-940)
20. **Registration/Update** - Annual requirements to fulfill legal obligations to maintain current stationary source emissions data will necessitate a prompt response by the permittee to requests by the DEQ or the Board for information to include, as appropriate: process and production data; changes in control equipment; and operating schedules. Such requests for information from the DEQ will either be in writing or by personal contact. The availability of information submitted to the DEQ or the Board will be governed by applicable provisions of the Freedom of Information Act, §§ 2.1-340 through 2.1-348 of the Code of Virginia, § 10.1-1314 (addressing information provided to the Board) of the Code of Virginia, and 9 VAC 5-170-60 of the State Air Pollution Control Board Regulations. Information provided to federal officials is subject to appropriate federal law and regulations governing confidentiality of such information.
(9 VAC 5-80-900)
21. **Permit Copy** - The permittee shall keep a copy of this permit on the premises of the facility to which it applies.
(9 VAC 5-80-860 D)